

## Message Text

UNCLASSIFIED

PAGE 01 BRASIL 06690 112136Z

70

ACTION ARA-03

INFO OCT-01 ISO-00 /004 W

----- 031620

O R 111920Z AUG 75

FM AMEMBASSY BRASILIA

TO AMCONSUL RIO DE JANEIRO IMMEDIATE

INFO SECSTATE WASHDC 0871

UNCLAS BRASILIA 6690

FOLLOWING MESSAGE RECEIVED FROM SECSTATE ON 08 AUG SENT ACTION  
LONDON PARIS BRASILIA PRETORIA CANBERRA BONN NEW DELHI OTTAWA AND  
TOKYO, NOW BEING REPEATED FOR YOUR NFORMATION.

QUOTE UNCLAS STATE 188124

E.O. 11652: N/A

TAGS: TSPA

SUBJECT: POTENTIAL FREQUENCY INTERFERENCE WITH VIKING  
ORBITER RECEIVER

REF. STATE A-4055

PASS DUTY OFFICER ASAP SATURDAY MORNING.

1. NASA REQUESTS POSTS RENDER ANY POSSIBLE ASSISTANCE TO  
AVOID A POTENTIAL RADIO INTERFERENCE PROBLEM IN CONNECTION  
WITH PLANNED LAUNCHINGS AUGUST 11 AND 21 OF TWO VIKING  
SPACECRAFT CONSISTING OF AN ORBITER AND LANDER WHICH ARE  
DESIGNED TO PERFORM SCIENTIFIC INVESTIGATIONS OF THE  
PLANET MARS DURING THE LATTER HALF OF 1976 FROM MARTIAN  
ORBIT AND ON MARTIAN SURFACE.

2. IN ORDER TO INCREASE DATA THAT CAN BE RETURNED BY  
LANDER, THE LANDER HAS BEEN DESIGNED TO RETURN DATA VIA  
ORBITER ACTING AS RELAY SATELLITE. ORBITER'S RELAY  
RADIO HAS SENSITIVE FRONT END EVEN WITH RADIO TURNED  
OFF AND HAS RATHER BROAD BAND PASS TO ACHIEVE PERFORMANCE  
REQUIREMENTS. FREQUENCY SPECTRUM WHERE RECEIVER IS  
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VULNERABLE:

371 - 391 MHZ  
1400 - 1600 MHZ, AND  
2900 - 3100 MHZ

DAMAGE CAN RESULT FROM EFFECTIVE RADIATED POWER LEVELS ABOVE 130 DBM AT A SLANT RANGE OF 200 KILOMETERS TO THE SPACECRAFT. THIS SUSCEPTIBILITY COVERS CW, SWEPT CW, OR PULSED EMISSIONS.

3. CONCERN IS THAT GROUND BASED HIGH POWER RADAR OR RADIO STATIONS MAY CAUSE UNINTENTIONAL DAMAGE TO RECEIVER DURING LAUNCH PHASE OF FLIGHT.

4. THE LAUNCH PERIOD FOR THE TWO VIKING SPACECRAFT EXTENDS FROM 11 AUGUST 1975 TO 14 SEPTEMBER 1975. THE LAUNCH DATES CAN BE AFFECTED BY WEATHER OR TECHNICAL DELAYS. THEREFORE, AT THIS TIME WE REQUEST THAT, IF POSSIBLE, POST REQUEST AN IRRADIATION RESTRICTION BY HOST GOVERNMENTS WHICH COULD TAKE PLACE AT ANY OF FOLLOWING DATES AND TIMES:

| LAUNCH DATE | BEGINNING GMT DAY | ENDING GMT DAY |
|-------------|-------------------|----------------|
|-------------|-------------------|----------------|

|             |     |      |     |      |
|-------------|-----|------|-----|------|
| 11 AUG 1975 | 223 | 2100 | 224 | 0200 |
| 12 AUG 1975 | 224 | 2100 | 225 | 0200 |
| 13 AUG 1975 | 225 | 2100 | 226 | 0200 |

SEPTEL WILL BE ISSUED IF VIKING AS IS NOT LAUNCHED IN THE THREE DAY PERIOD FROM 11 TO 13 AUGUST. SEPTEL WILL BE SENT FOR VIKING B AFTER VIKING A IS LAUNCHED.

5. THE GEOMETRIC LAUNCH PROFILE FOLLOWS PATH FROM CAFE KENNEDY IN FLORIDA SE OVER ATLANTIC, OVER ASCENSION ISLAND CROSSING LOWER FOURTH OF AFRICA, SOUTHERN INDIAN OCEAN, COMING UP ACROSS NW PORTION OF AUSTRALIA, PAPUA-NEW GUINEA.

6. SPACECRAFT REACHES PARKING ORBIT ALTITUDE OF 90 MILES APPROXIMATELY 1200 DOWNRANGE FROM LIFTOFF.  
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7. NASA REQUESTS POSTS CONTACT HOST GOVERNMENTS EARLIEST POSSIBLE TIME AND REQUEST THEIR ASSISTANCE IN PROTECTING VIKING RECEIVER DURING THE LAUNCH PHASE. NASA WOULD APPRECIATE IT IF ANY PROBLEM RADIO SOURCES COULD BE TURNED OFF DURING THE INDICATED TIME.

8. FYI POSTS MAY WISH TO UTILIZE PROCEDURES DEVELOPED

IN CONNECTION WITH APOLLO-SOYUZ CONTINGENCY PLANS REFTEL  
ON FREQUENCY PROBLEMS. END FYI

9. REGRET LAST MINUTE NOTIFICATION THE SERIOUSNESS OF  
WHICH ONLY BECAME APPARENT THIS WEEK DURING FINAL CHECK-  
OUT REVIEWS. KISSINGER UNQUOTE.

CRIMMINS

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NNN

## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** SPACE FLIGHT, SPACE PROGRAMS, RADIO FREQUENCY INTERFERENCE  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 11 AUG 1975  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Authority:** n/a  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 JAN 1960  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
**Document Number:** 1975BRASIL06690  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** n/a  
**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
**Film Number:** D750277-0266  
**From:** BRASILIA  
**Handling Restrictions:** n/a  
**Image Path:**  
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**Legacy Key:** link1975/newtext/t19750862/aaaaccej.tel  
**Line Count:** 122  
**Locator:** TEXT ON-LINE, ON MICROFILM  
**Office:** ACTION ARA  
**Original Classification:** UNCLASSIFIED  
**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
**Page Count:** 3  
**Previous Channel Indicators:** n/a  
**Previous Classification:** n/a  
**Previous Handling Restrictions:** n/a  
**Reference:** 75 STATE A-4055  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** ellisooob  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 29 JAN 2003  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <29 JAN 2003 by ReddocGW>; APPROVED <04 FEB 2004 by ellisooob>  
**Review Markings:**

Margaret P. Grafeld  
Declassified/Released  
US Department of State  
EO Systematic Review  
06 JUL 2006

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** POTENTIAL FREQUENCY INTERFERENCE WITH VIKING ORBITER RECEIVER  
**TAGS:** TSPA, BR, US  
**To:** RIO DE JANEIRO  
**Type:** TE  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 06 JUL 2006